

# EUROPEAN PATENT OFFICE

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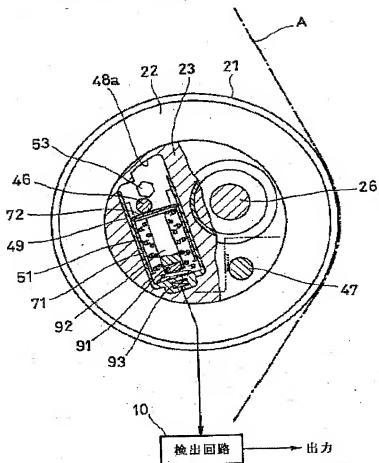
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APPLICANT : NTN CORP;

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TITLE : BELT TENSION REGULATING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a belt tension regulating device which is provided with a means to detect the oscillation position of a tension pulley and is capable of reporting the conversion timing of a timing belt and abnormality of auto tensioner.

SOLUTION: The belt tension regulating device is constituted such that a tension pulley 21 is rotatably supported by a bearing 22, the bearing 22 is supported by an eccentric ring 23 rotatably supported by a fixed bolt 26 and the position of the tension pulley 21 is movable, and the tension of a belt A is regulatable. The position of the tension pulley 21 is regulated by a spring 51, situated in the umbrella of the pulley, and a hydraulic damper 28 and detected by a position detecting mechanism consisting of a magnet 91, situated at a detecting rod 92 in the spring 51, and an magnetic sensor 93 situated at an eccentric ring 23.

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